

**PERFORMANCE MEASUREMENT SYSTEM WITH
FLUORESCENT MARKERS FOR GOLF EQUIPMENT**

ABSTRACT

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The present invention is directed to a monitor system that measures flight characteristics of at least one object moving in a predetermined field-of-view using at least one fluorescent marker. The system may include a lighting unit with a light filter, at least one camera unit with a camera filter. The lighting unit directs light in the direction of the object.

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If there is a light filter the light is filtered prior to reaching the object. The camera unit is pointed toward the object and the camera filter inhibits all wavelengths except those in a certain range. The reflected light from the object is transmitted to the camera through the camera filter. In one embodiment, the system includes a camera filter that is electronically switchable between at least two colors. The present invention further includes methods for monitoring at least one object with at least one marker using filters.

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